

ABSTRACT OF THE WIND AT WINNIPEG INTERNATIONAL AIRPORT FOR THE MONTH OF JULY

ALL TIMES ARE C.S.T. VELOCITY IN KILOMETERS PER HOUR

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
NW	WNW	NNW	N	NNE	NNE	NE	ENE	NE	N	NNE	N	NNE	N	NE	E	E	E	E	SE	SE	SE	SE	SE
11	11	13	7	13	19	17	11	19	15	11	22	20	22	17	13	17	15	19	9	7	7	7	7
SE	ESE	ESE	SE	ESE	ESE	SE	ESE	ESE	E	E	E	E	E	E	E	E	E	E	ESE	ESE	ESE	ESE	ESE
7	11	13	19	15	13	11	15	20	24	33	28	22	11	20	13	15	22	17	15	13	9	9	9
SE	S	SW	WSW	S	WSW	WSW	SSW	SW	W	WSW	W	W	W	W	W	W	W	W	W	W	W	W	W
6	7	6	2	6	9	6	7	7	11	9	17	19	15	22	22	17	11	11	17	17	15	9	9
W	NNW	NNW	N	NNW	NNW	N	NNW	NNW	N	NNW	NNW	N	NNW	NNW	N	NNW	N	NNW	N	NNW	NNW	NNW	NNW
11	24	17	30	33	41	35	28	37	30	39	33	22	30	30	28	31	19	17	17	13	9	9	9
WNW	WNW	W	WSW	SW	WSW	WSW	WSW	SW	SW	WSW	SSW	S	SSW	S	S	S	S	SSE	SSE	SSE	SSE	SSE	SSE
6	4	15	15	11	9	9	6	9	13	11	13	13	19	9	15	9	20	17	19	19	19	19	20
SSE	SSE	SSE	S	S	SSE	S	S	S	S	S	S	S	S	S	S	S	S	SSE	S	S	S	S	S
17	20	19	22	22	22	26	26	24	28	28	28	26	30	28	30	26	19	13	15	9	9	11	11
S	S	S	SSE	SSE	SSE	SSE	SSE	SE	SSE	SSE	SSE	S	SSE	S	SSE	S	S	SSE	SSE	SSE	SSE	SSE	SSE
9	11	9	15	13	19	15	19	22	13	20	19	13	15	13	7	4	0	7	6	11	9	7	4
C	N	NE	C	WNW	C	N	N	NE	NNE	E	ENE	NNE	NNE	N	NNE	NNE	N	NNE	NNE	E	E	E	ESE
0	9	2	0	6	0	0	9	9	4	9	7	13	13	17	24	20	20	22	15	19	19	19	26
ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	ESE	ESE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE
22	19	20	26	20	20	19	20	24	28	17	22	9	9	26	28	31	24	24	22	20	24	24	26
SE	SE	SE	SE	SE	SE	SE	SE	SE	SSW	SE	SE	ESE	SSE	S	S	S	S	S	WSW	WSW	WSW	WSW	WSW
31	26	22	22	24	20	20	17	19	11	20	24	24	24	28	24	26	20	19	15	31	26	20	24
SW	SSW	SSW	SSW	SW	SW	SW	SW	WSW	WSW	W	W	W	W	W	W	W	W	WSW	WSW	WSW	WSW	WSW	WSW
26	30	28	28	31	39	39	31	39	31	39	37	37	33	28	33	26	28	19	15	9	11	9	13
SW	WSW	SW	SW	SW	SSW	S	S	S	S	SSE	S	S	S	S	S	S	S	S	S	SSE	S	S	S
13	13	13	13	13	13	9	7	9	13	15	20	22	20	20	24	20	19	17	17	13	17	15	15
S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	SSE	S	S	S
20	20	20	22	20	20	19	19	22	22	19	15	13	6	2	4	6	13	15	9	7	0	0	0
C	C	C	ESE	ESE	SE	C	ESE	ESE	SE	SE	ESE	SE	SE	SE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE
0	0	0	4	6	4	0	7	9	9	11	15	13	15	17	19	22	24	20	15	13	17	20	22
SE	SE	SE	SE	SSE	SSE	SE	SSE	SSE	SSE	SSE	SE	SSE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE
22	17	13	13	17	19	20	19	24	31	24	31	33	33	30	24	24	26	24	26	24	22	28	22
SSE	SSE	C	E	ESE	SSE	SSE	S	WSW	WSW	WSW	W	WSW	W	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
11	9	0	9	9	20	19	20	13	22	15	17	24	22	20	9	11	7	11	7	6	4	7	11

1152  
0951  
1457  
0454  
1421  
1317  
0817  
2334  
1432  
1357  
0537  
1515  
0530  
1649  
1449  
0734

ALL TEMPERATURES IN DEGREES CELSIUS

DATE	00.	01.	02.	03.	04.	05.	06.	07.	08.	09.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.
1.	14.4	14.5	14.6	15.0	14.8	14.8	14.8	15.6	16.0	16.3	17.9	18.7	20.3	18.9	19.7	20.0	20.5	20.3	20.4	20.1	18.0	16.9	16.3	16.5
2.	16.2	16.1	15.9	15.6	15.7	15.9	16.9	18.0	18.0	18.0	18.7	16.8	16.4	17.0	17.6	18.4	18.5	18.7	18.6	18.7	18.5	18.3	18.3	18.0
3.	18.0	18.1	18.1	18.0	17.4	18.5	18.9	19.6	19.9	21.3	21.3	21.9	22.1	23.2	23.5	24.2	23.8	23.3	22.6	21.6	20.5	19.3	19.1	18.6
4.	17.5	17.5	16.8	15.6	14.2	14.3	13.0	12.2	11.4	11.0	11.7	11.4	11.9	12.5	13.5	14.9	14.0	14.1	13.9	12.6	11.1	7.8	7.4	6.8
5.	6.6	6.0	6.2	5.7	5.7	6.0	9.0	10.2	12.1	13.7	14.7	14.3	15.7	17.1	17.5	17.7	18.5	18.8	18.8	18.2	16.7	15.7	15.4	14.7
6.	14.2	14.1	14.2	14.0	13.8	14.0	14.9	15.7	18.6	20.0	22.3	23.9	25.5	26.3	27.4	28.0	28.3	28.6	27.6	26.3	25.6	23.6	23.1	22.1
7.	21.5	20.4	20.0	20.6	20.6	20.5	20.2	21.2	22.3	21.8	24.0	25.2	26.1	27.4	27.0	27.4	28.1	28.0	28.0	28.7	26.2	24.8	22.9	21.8
8.	20.1	19.6	19.5	18.5	18.4	18.0	19.5	21.5	23.1	25.2	27.4	29.0	29.5	29.7	30.5	29.2	29.3	29.1	28.5	28.2	27.9	27.0	25.8	25.1
9.	24.0	23.0	22.1	21.6	20.9	20.9	20.9	22.4	23.9	24.5	26.1	27.3	26.3	26.6	26.6	27.2	27.8	28.8	28.4	28.0	27.0	27.2	26.3	25.6
10	25.2	24.7	24.4	23.9	23.3	22.8	22.7	22.4	24.2	24.9	25.6	27.6	27.6	31.0	31.9	32.1	32.4	32.0	31.8	30.5	27.6	25.0	23.0	22.0
11	19.5	17.6	16.0	15.2	16.1	16.5	16.1	16.1	16.2	16.7	17.1	18.1	18.1	18.9	20.3	20.4	21.9	22.6	22.7	22.3	21.2	19.8	19.2	18.4
12	17.9	16.8	16.1	15.6	14.9	14.3	15.6	18.0	19.7	22.5	25.0	26.6	28.0	28.9	29.9	30.9	30.9	30.9	30.4	28.9	27.7	24.4	22.9	22.1
13	21.9	21.5	21.6	21.2	19.7	19.3	19.6	21.6	23.1	24.1	25.6	25.9	26.4	27.8	29.2	29.7	30.0	28.8	27.2	25.4	23.2	21.6	20.6	20.8
14	19.5	20.2	19.1	18.9	19.1	18.8	21.0	22.6	24.8	26.2	28.2	28.8	30.1	31.3	31.7	32.5	33.0	33.0	32.8	31.0	29.2	28.4	27.5	27.0
15	27.1	25.6	24.4	24.5	24.0	23.5	23.8	24.7	26.0	27.5	29.0	30.1	31.5	31.9	31.0	30.0	29.5	29.1	29.2	29.2	27.5	26.6	26.3	24.9
16	24.3	23.4	21.8	21.4	21.6	21.3	21.3	21.4	19.0	17.5	20.4	21.0	21.5	23.4	23.6	23.9	24.6	24.7	24.3	23.5	21.7	18.9	18.4	17.5
17	17.2	17.2	15.6	15.7	14.8	14.7	14.7	17.7	19.4	21.0	22.1	24.0	24.7	25.8	25.6	26.7	27.1	26.5	25.3	23.9	23.4	20.5	19.5	19.3
18	19.5	18.2	18.7	16.6	17.5	17.1	18.8	20.9	22.5	22.0	23.2	24.5	24.3	25.5	25.7	26.0	25.9	25.5	25.2	25.0	23.5	21.5	20.6	18.8
19	19.5	18.5	19.3	20.0	19.5	18.2	18.8	20.0	21.1	22.7	23.6	23.9	24.2	25.4	26.9	27.7	28.1	28.7	28.4	26.7	24.4	22.7	22.1	21.0
20	19.6	19.6	18.3	17.4	17.8	17.8	18.6	21.0	23.5	24.7	26.1	27.8	19.3	30.1	30.8	31.3	30.2	30.3	30.0	28.2	26.6	24.5	23.0	21.2
21	20.2	20.5	20.2	19.8	20.6	17.5	18.7	21.6	22.4	23.5	27.3	30.0	30.6	30.7	30.3	31.1	30.6	30.8	30.3	28.8	26.6	24.2	22.9	21.1
22	20.1	19.9	18.0	17.8	17.2	17.0	18.3	20.4	23.2	25.0	26.6	28.2	28.8	29.5	29.8	30.0	29.5	28.9	26.5	24.0	22.3	20.9	19.1	19.4
23	18.2	17.5	16.6	15.2	15.1	15.9	16.6	18.3	19.6	20.9	21.0	21.3	22.7	22.9	23.1	23.1	23.2	23.4	23.6	22.4	20.4	17.9	16.7	15.8
24	14.9	14.3	13.8	14.0	13.2	13.2	14.2	17.0	19.1	21.8	23.5	24.4	25.1	25.3	26.2	26.6	27.2	26.8	26.0	24.9	21.4	19.7	18.0	17.4
25	16.6	15.8	17.7	17.5	15.9	15.7	16.1	19.0	21.2	23.7	25.4	25.8	27.9	29.0	27.7	29.0	29.1	28.6	28.2	26.8	24.3	23.6	23.1	22.8
26	21.3	20.7	20.0	20.4	20.4	19.6	19.4	20.1	22.9	23.5	25.1	25.6	26.9	27.4	28.3	28.8	25.6	28.3	28.2	28.0	27.3	26.3	25.8	24.4
27	22.9	22.7	21.7	21.5	21.4	20.8	20.4	23.0	24.3	26.4	25.6	26.8	28.0	28.4	29.2	29.5	30.3	30.4	29.4	27.9	26.2	24.7	24.1	23.5
28	23.3	21.8	20.8	20.1	18.2	18.2	18.1	19.7	21.8	23.6	26.2	27.6	28.8	29.2	29.8	29.9	30.3	30.1	29.3	27.3	23.6	21.8	19.4	18.5
29	18.6	18.8	17.4	17.1	16.1	15.7	16.3	18.7	21.5	22.8	23.7	24.8	26.9	26.7	27.7	27.8	27.8	27.5	26.7	25.0	22.3	22.0	20.8	20.0
30	20.5	20.2	17.2	17.2	17.0	17.4	17.4	17.5	18.7	20.6	22.5	24.0	25.2	25.6	26.0	26.2	25.8	18.3	19.2	20.5	19.0	17.8	17.1	17.3
31	15.8	14.3	14.2	14.6	14.3	14.8	15.2	16.6	19.0	20.5	22.0	22.0	23.5	26.0	24.5	24.7	26.2	26.5	26.0	24.3	21.8	20.0	19.5	18.4

MEAN	19.2	18.7	18.1	17.8	17.4	17.2	17.7	19.2	20.6	21.7	23.2	24.1	24.6	25.8	26.2	26.6	26.7	26.5	26.0	25.1	23.3	21.7	20.8	20.0
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MEAN DAILY TEMPERATURES BASED ON HOURLY READINGS

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
MEAN	17.3	17.4	20.4	12.8	13.2	21.3	23.9	25.0	25.1	26.6	18.6	23.3	24.0	26.4	27.4	21.7

DATE	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
MEAN	20.9	22.0	23.0	24.1	25.0	23.4	19.6	20.3	22.9	24.3	25.4	24.1	22.2	20.3	20.2

COMPARATIVE RECORDS RELEVÉS COMPARATIFS		MONTH MOIS				JULY/JUILLET				1983			
Temperature/Température Precipitation/Precipitation Rainfall/Hauteur de pluie Snowfall/Hauteur de neige Wind speed/Vitesse du vent Station pressure/Pression à la station	°Celsius - Millimètres (mm) - Millimètres (mm) - Centimètres (cm) - Kilomètres/par heure (km/h) - Kilopascals (kPa)	THIS MONTH CE MOIS-CI		PREVIOUS YEAR ANNÉE PRÉCÉDENTE		NORMAL NORMALE	RECORD FOR THE MONTH RECORD POUR LE MOIS						YEARS OF RECORD ANNÉES D'OBSERVATIONS
		VALUE RELEVÉ	DATE	VALUE RELEVÉ	DATE		HIGHEST MAXIMUM ABSOLU			LOWEST MINIMUM ABSOLU			
							VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE	VALUE RELEVÉ	DAY JOUR	YEAR ANNÉE	
HIGHEST TEMPERATURE TEMPÉRATURE LA PLUS ÉLEVÉE		33.7	14	31.1	4	32.9	42.2	11	1936	26.1	22, 24	1884	112
LOWEST TEMPERATURE TEMPÉRATURE LA PLUS BASSE		5.4	5	8.4	14	6.0	11.7	30	(1943) (1935)	1.1	3	1972	112
MEAN MONTHLY TEMPERATURE TEMPÉRATURE MENSUELLE MOYENNE		22.2		20.0		19.6	24.2		1936	15.4		1884	112
TOTAL MONTHLY RAINFALL HAUTEUR TOTALE MENSUELLE DE PLUIE		29.8		106.9		75.9	197.4		1953	13.5		1875	112
TOTAL MONTHLY SNOWFALL HAUTEUR TOTALE MENSUELLE DE NEIGE													
TOTAL MONTHLY PRECIPITATION PRECIPITATION TOTALE MENSUELLE		29.8		106.9		75.9	197.4		1953	13.5		1875	112
NO OF DAYS WITH MEASURABLE PRECIPITATION NOMBRE DE JOURS AVEC PRECIPITATION MESURABLE		6		10		11	18		1912, 1938	5		1939	100
GREATEST RAINFALL IN ONE DAY HAUTEUR DE PLUIE MAXIMALE EN UNE JOURNÉE		11.6	30	34.6	28		133.6	12	1914				112
GREATEST SNOWFALL IN ONE DAY HAUTEUR DE NEIGE MAXIMALE EN UNE JOURNÉE													112
GREATEST PRECIPITATION IN ONE DAY PRECIPITATION MAXIMALE EN UNE JOURNÉE		11.6	30	34.6	28*		133.6	12	1914				112
MAXIMUM RAINFALL RECORDED IN: HAUTEUR DE PLUIE MAXIMALE ENREGISTRÉE EN:													
5 MINUTES		2.3	2	8.6	16		17.8	16	1968				25
10 MINUTES		4.0	2	13.0	16		24.6	16	1968				25
15 MINUTES		4.0	2	16.2	16		35.3	16	1968				25
30 MINUTES		4.9	30	22.6	16		39.4	16	1968				25
60 MINUTES		7.1	30	22.6	16		39.4	16	1968				25
24 CONSECUTIVE HOURS HEURES CONSECUTIVES		11.6	30	35.6	28-29		133.6	12	1914				12
MEAN WIND SPEED (km/h) VITESSE MOYENNE DU VENT (km/h)		14.6		15.1		16.0	20.9		1952	10.9		1972	63
MAXIMUM SPEED (1 min.) (km/h) VITESSE MAXIMALE (1 min.) (km/h)	NNW41 W41	4	22	WNW52	17	52	NW68	10	1946				45
MAXIMUM GUST SPEED (km/h) POINTE DU VENT MAXIMALE (km/h)	SW65	11		WSW91	17	85	SSW127	14	1959				39
TOTAL HOURS OF SUNSHINE TOTAL DES HEURES INSOLATION		330.3		307.6		315.6	367.7		1974	178.3		1912	84
MEAN STATION PRESSURE (kPa) PRESSION MOYENNE A LA STATION (kPa)		98.29		98.34		98.47	98.70		1956	98.20		1975	45
GREATEST STATION PRESSURE (kPa) PRESSION MAXIMALE A LA STATION (kPa)		99.40	5	99.56	22	99.55	100.04	4	1972				45
LEAST STATION PRESSURE (kPa) PRESSION MINIMALE A LA STATION (kPa)		96.72	3	96.68	17	97.13				96.28	1	1968	45

CLIMATOLOGICAL DATA FOR THE PAST DONNÉES CLIMATOLOGIQUES POUR LES												TEN (DIX) 10		YEARS DERNIÈRE ANNÉES	
YEAR ANNÉE	MAXIMUM TEMP. MAXIMALE	MINIMUM TEMP. MINIMALE	MEAN TEMP. MOYENNE	RAINFALL HAUTEUR DE PLUIE	SNOWFALL HAUTEUR DE NEIGE	TOTAL PRECIP. TOTALE	MEAN WINDSPEED VITESSE MOYENNE DES VENTS	MAXIMUM WINDSPEED VITESSE MAXIMALE DES VENTS	HOURS SUNSHINE HEURES INSOLATION	HEATING DEGREE DAYS DEGRÉS JOURS DE CHAUFFE	CROWING DEGREE DAYS DEGRÉS JOURS DE CROISSANCE				
1974	33.3	8.3	21.9	32.0		32.0	16.6	NW 48	367.7	4.4	527.2				
1975	35.5	7.0	21.5	58.2		58.2	15.0	S 47	357.8	12.0	510.6				
1976	31.5	6.1	19.7	36.9		36.9	16.9	NNW46	348.4	15.7	454.8				
1977	31.6	8.3	19.4	85.3		85.3	16.1	ESE46	340.5	11.1	445.3				
1978	30.4	5.8	18.9	60.6		60.6	14.1	W 59	305.9	30.5	430.1				
1979	32.7	7.0	20.9	23.1		23.1	14.9	WNW50	333.8	12.4	493.4				
1980	34.8	5.5	20.4	23.7		23.7	15.6	N,S41	326.1	9.7	478.7				
								E 41							
								NW 41							
								WNW41							
								SSW41							
								NNW41							
1981	34.0	5.6	20.3	39.0		39.0	15.2	S 52	332.4	15.3	474.6				
1982	31.1	8.4	20.0	106.9		106.9	15.1	WNW52	307.6	7.7	465.3				
1983	33.7	5.4	22.2	29.8		29.8	14.6	W 41	330.3	12.0	532.9				
								NNW 41							